

Morbidity and Mortality

Weekly Report

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U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
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Prepared by the COMMUNICABLE DISEASE CENTER 634-5131

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ATLANTA 22, GEORGIA

Vol. 12, No. 25

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED JUNE 22, 1963

Poliomyelitis - The 9 cases of poliomyelitis, all paralytic, reported this week represent the greatest number of cases reported for any single week this year. Illinois, Tennessee, Alabama and Arkansas each reported one case. Five of the cases reported were from Pennsylvania.

The Pennsylvania cases occurred in the Carlisle, Pennsylvania, area, and had onsets of illness between April 23 and June 12. This geographic clustering occurred early in the usual enterovirus season, and represented the heaviest experience with poliomyelitis by this community in over ten years. A mass community program was conducted in the Carlisle area on June 22, with 65,000 persons receiving Type I oral vaccine.

Reported cases of poliomyelitis for the entire United States during 1963 continue to run well below previous years as shown in the tables below:

Poliomyelitis (Cumulative Totals) 1st Through 25th Week

	1963	1962	1961	1960	1959
Paralytic	66	144	144	312	585
Total	76	186	217	428	854

Poliomyelitis (Six Week Totals) 20th Through 25th Week

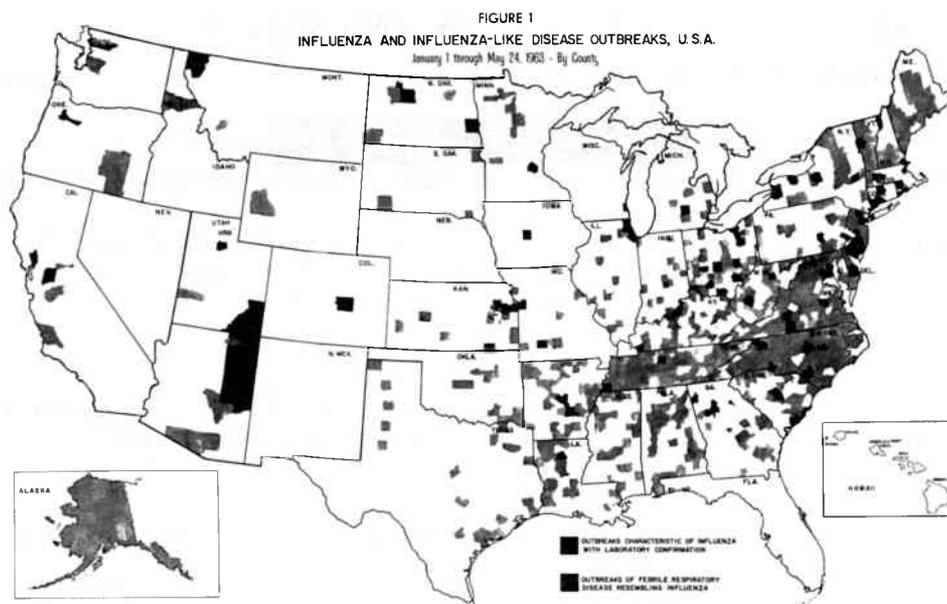
	1963	1962	1961	1960	1959
Paralytic	22	60	48	111	276
Total	26	71	71	147	409

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous week)

Disease	25th Week			Cumulative		
	Ended	Ended	Median 1958 - 1962	First 25 weeks		Median 1958 - 1962
	June 22, 1963	June 23, 1962		1963	1962	
Aseptic meningitis.....	25	41	---	592	548	---
Brucellosis.....	5	12	17	163	195	363
Diphtheria.....	4	9	6	130	213	322
Encephalitis, infectious.....	42	38	38	738	753	720
Hepatitis, infectious and serum.....	671	788	661	22,993	30,890	18,699
Measles.....	8,794	9,541	10,966	327,869	408,898	357,511
Meningococcal infections.....	49	44	40	1,402	1,181	1,298
Poliomyelitis, total.....	9	11	41	76	186	428
Paralytic.....	9	9	28	66	144	312
Nonparalytic.....	-	2	12	3	26	78
Unspecified.....	-	-	1	7	16	38
Streptococcal sore throat and Scarlet fever.....	4,398	3,952	---	210,636	192,999	---
Tetanus.....	6	4	---	105	93	---
Tularemia.....	12	5	---	114	121	---
Typhoid fever.....	10	14	25	171	227	292
Typhus fever, tick-borne, (Rocky Mountain spotted).....	8	7	---	45	57	---
Rabies in Animals.....	98	87	76	1,967	2,084	1,994

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

Anthrax:	Cum.	2	Psittacosis:	Cum.	29
Botulism:	5	Rabies in Man:	-	-	-
Malaria: N. C. - 1, Ohio - 1.	43	Smallpox:	-	-	-
Plague:	-	Typhus, murine: s. c. - 1.	6	6	6



INFLUENZA – Epidemics of influenza-like disease first appeared and became widespread in the Eastern United States during January 1963. The first confirmed outbreak due to Influenza A₂ began in early January in Robeson County, North Carolina. Shortly thereafter adjacent counties in North Carolina and contiguous counties in South Carolina were progressively involved, and by February 15 outbreaks of influenza-like illness had been reported from the District of Columbia and 15 States. During January, the spread of the disease to the North and South along the Atlantic Seaboard resulted in community-wide outbreaks in these areas.

Confirmed outbreaks in the Kansas City and Chicago areas occurred during January in rather specialized population groups; however, it was not until February that community-wide outbreaks were seen in these areas. The appearance of outbreaks in early February in West Virginia, Kentucky, and Ohio marked the beginning of a westerly spread of the disease and, by late February, large segments of the middle western and south central States were involved. By the first week of March, outbreaks of influenza-like disease had occurred and were subsiding in the District of Columbia and 35 States, all east of the Rocky Mountain.

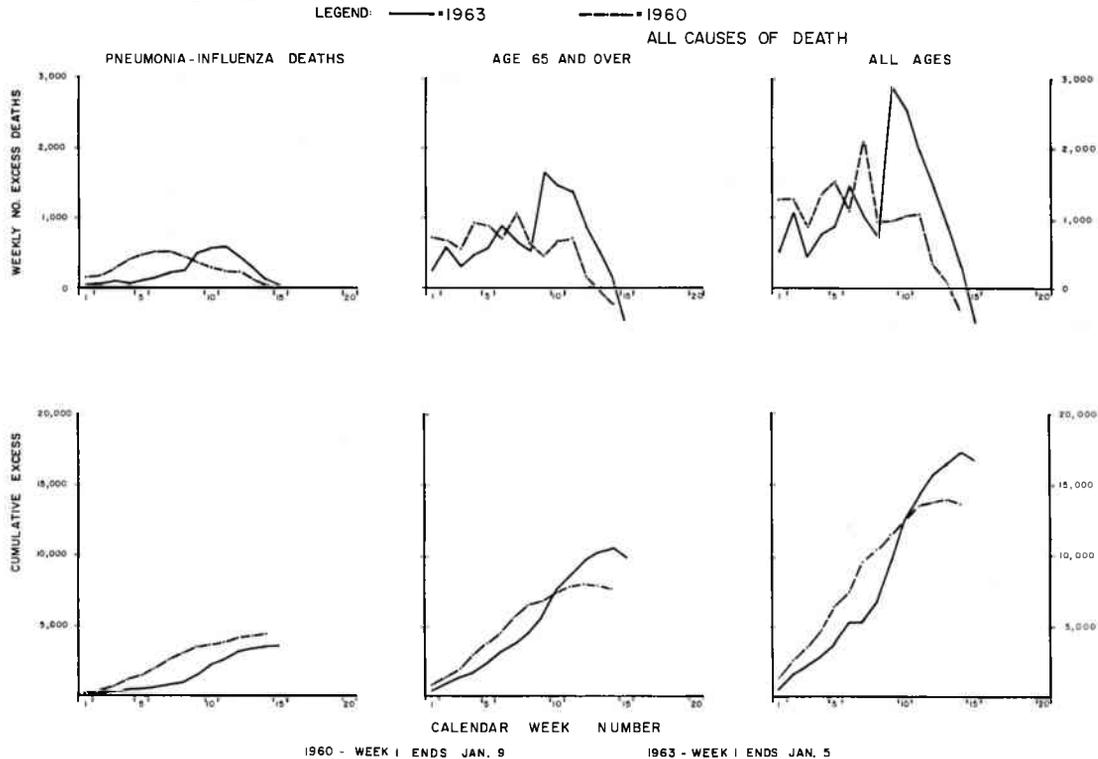
The pattern of epidemic spread continued a westerly course, although the extensive, often State-wide, involvement characterized earlier outbreaks on the Eastern Seaboard were not as frequently observed as the epidemic moved westward. The mountain States of Colorado, Idaho, and Utah reported influenza-like disease outbreaks for the first time in early March, and the West Coast States of Alaska and California began to experience focal outbreaks of the disease. In mid-March, small focal outbreaks occurred in Washington and Wyoming.

With the exception of Alaska, where widespread community epidemics occurred during March and April, the West Coast States were notable for the lack of demonstrable widespread community involvement. In California, the presence of Influenza A₂ virus was demonstrated in many areas of the State through serologic confirmation in sporadic cases; however, outbreaks could be demonstrated largely only in institutional environments.

By late April, one or more outbreaks of influenza-like disease had been reported in the District of Columbia and 45 States. Increased incidence of this syndrome was not reported in the States of Florida, Hawaii, Nebraska, Nevada, and New Mexico. The accompanying map (Fig. 1) shows the distribution of outbreaks of influenza-like illness and those with laboratory confirmation of influenza, from January 1 through May 24, 1963. In general, the force of the epidemic, in its capacity for large-scale community involvement, tended to dissipate as the epidemic moved west. Conspicuously absent during the 1963 epidemic was the widespread excess secondary school absenteeism, which was noted during the 1957 Influenza A₂ epidemic. Surveys of age specific attack rates in selected areas of epidemic prevalence showed marked flattening of the attack rate curves in the age groups 10-19. (See MMWR, Vol. 12, Page 95).

Pneumonia-influenza deaths in the 108 U. S. cities first exceeded the epidemic threshold in early January and reached a peak during the week ending March 16. Deaths fell to below threshold levels during the week ending April 13 and have remained so to the present. Excess pneumonia-influenza mortality for the 9 geographic divisions of the United States during the epidemic was shown in MMWR, Vol. 12, Page 135. High levels occurred in all but the Mountain and Pacific Divisions.

FIGURE 2 EXCESS MORTALITY IN 108 U. S. CITIES



Influenza A₂ virus was implicated as the causative agent of one or more outbreaks in the District of Columbia and in 34 of the 45 States reporting outbreaks of influenza-like illness. No isolations of Influenza B virus were reported during the entire season. The contemporary isolates of Influenza Type A strains showed relation through hemagglutination inhibition to the A₂/Jap 305/57 prototype, and are members of the A₂ sub-type. Although detailed antigenic analyses have not been made on all viruses isolated in 1963, there is evidence of some antigenic change away from the 1957 prototype strain.

Pneumonia-Influenza Mortality

The 1963 Influenza A₂ epidemic resulted in an excess pneumonia-influenza death rate of 5.9 per 100,000 population for the entire United States during the three month period January – March. This rate was somewhat lower than the excess rate of 6.7 per 100,000 during the 1960 Influenza A₂ epidemic. For deaths from all causes the 1963 excess rate of 25.5 per 100,000 was considerably above the comparable rate of 15.0 in 1960.

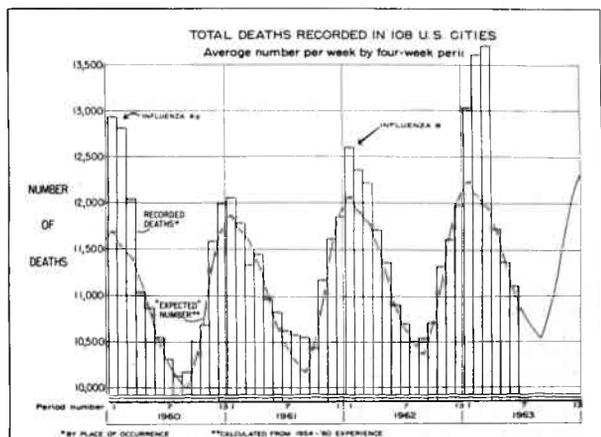
In Figure 2 excess deaths reported by the 108 cities are presented for 1960 and 1963. The period of highest

(Continued on page 212)

TOTAL DEATHS REPORTED IN 108 CITIES

The weekly average number of total deaths in 108 cities for the four-week period ending June 22 was 11,112 as compared with an expected weekly average of 11,057.

	WEEK ENDING				4 Week Total	Weekly Average
	6/1	6/8	6/15	6/22		
Observed	9,971	11,942	11,558	10,978	44,449	11,112
Expected	11,166	11,090	11,019	10,952	44,227	11,057
Excess	-1,195	852	539	26	222	55



(See table, Page 211)

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 22, 1963 AND JUNE 23, 1962

Area	Poliomyelitis, total cases				Poliomyelitis, paralytic				Poliomyelitis, nonparalytic		Aseptic Meningitis	
	25th week		Cumulative First 25 weeks		25th week		Cumulative First 25 weeks		25th week		25th week	
	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962	1963	1962
UNITED STATES.....	9	11	76	186	9	9	66	144	-	2	25	41
NEW ENGLAND.....	-	2	-	3	-	2	-	3	-	-	-	1
Maine.....	-	-	-	-	-	-	-	-	-	-	-	1
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	2	-	2	-	2	-	2	-	-	-	-
Rhode Island.....	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	1	-	-	-	1	-	-	-	-
MIDDLE ATLANTIC.....	5	-	14	33	5	-	12	20	-	-	1	-
New York.....	-	-	5	32	-	-	5	19	-	-	1	-
New Jersey.....	-	-	1	1	-	-	1	1	-	-	-	-
Pennsylvania.....	5	-	8	-	5	-	6	-	-	-	-	-
EAST NORTH CENTRAL.....	1	-	16	10	1	-	12	6	-	-	4	2
Ohio.....	-	-	4	4	-	-	3	4	-	-	2	-
Indiana.....	-	-	2	3	-	-	-	2	-	-	-	-
Illinois.....	1	-	7	2	1	-	6	-	-	-	-	1
Michigan.....	-	-	2	-	-	-	2	-	-	-	2	1
Wisconsin.....	-	-	1	1	-	-	1	-	-	-	-	-
WEST NORTH CENTRAL.....	-	1	3	8	-	1	3	5	-	-	-	1
Minnesota.....	-	1	2	2	-	1	2	2	-	-	-	-
Iowa.....	-	-	-	3	-	-	-	2	-	-	-	-
Missouri.....	-	-	1	3	-	-	1	1	-	-	-	1
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	-	-	-	-	-
Kansas.....	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	-	-	9	11	-	-	7	9	-	-	5	3
Delaware.....	-	-	-	-	-	-	-	-	-	-	1	-
Maryland.....	-	-	-	-	-	-	-	-	-	-	-	-
District of Columbia..	-	-	-	1	-	-	-	-	-	-	-	-
Virginia.....	-	-	2	2	-	-	1	2	-	-	1	1
West Virginia.....	-	-	1	-	-	-	1	-	-	-	-	-
North Carolina.....	-	-	2	2	-	-	2	2	-	-	-	-
South Carolina.....	-	-	-	-	-	-	-	-	-	-	-	-
Georgia.....	-	-	1	2	-	-	-	2	-	-	-	-
Florida.....	-	-	3	4	-	-	3	3	-	-	3	2
EAST SOUTH CENTRAL.....	2	1	6	6	2	1	5	4	-	-	1	-
Kentucky.....	-	-	-	2	-	-	-	2	-	-	1	-
Tennessee.....	1	-	2	2	1	-	2	-	-	-	-	-
Alabama.....	1	1	3	2	1	1	2	2	-	-	-	-
Mississippi.....	-	-	1	-	-	-	1	-	-	-	-	-
WEST SOUTH CENTRAL.....	1	6	16	90	1	4	16	76	-	2	3	23
Arkansas.....	1	-	1	1	1	-	1	1	-	-	-	-
Louisiana.....	-	-	13	7	-	-	13	6	-	-	-	-
Oklahoma.....	-	-	-	1	-	-	-	-	-	-	-	-
Texas.....	-	6	2	81	-	4	2	69	-	2	3	23
MOUNTAIN.....	-	-	-	8	-	-	-	7	-	-	2	1
Montana.....	-	-	-	3	-	-	-	2	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	-	-	1	-	-	-	1	-	-	-	-
Colorado.....	-	-	-	-	-	-	-	-	-	-	1	1
New Mexico.....	-	-	-	-	-	-	-	-	-	-	-	-
Arizona.....	-	-	-	3	-	-	-	3	-	-	1	-
Utah.....	-	-	-	1	-	-	-	1	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	-	1	12	17	-	1	11	14	-	-	9	10
Washington.....	-	-	-	-	-	-	-	-	-	-	2	2
Oregon.....	-	-	1	1	-	-	1	1	-	-	-	-
California.....	-	1	11	16	-	1	10	13	-	-	7	8
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	-	1	4	7	-	1	4	7	-	-	-	1

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
JUNE 22, 1963 AND JUNE 23, 1962 - (Continued)

Area	Brucellosis		Diphtheria		Encephalitis, infectious		Hepatitis, infectious and serum				Measles	
	25th week	Cumulative 25 weeks	25th week	Cumulative 25 weeks	25th week		25th week				25th week	
							Under 20 yr.	20 & over	Total			
	1963	1963	1963	1963	1963	1962	1963	1963	1963	1962	1963	1962
UNITED STATES.....	5	163	4	130	42	38	326	283	671	788	8,794	9,541
NEW ENGLAND.....	-	-	-	4	3	1	35	19	57	46	338	1,433
Maine.....	-	-	-	-	-	-	29	9	38	18	8	151
New Hampshire.....	-	-	-	-	-	-	2	-	2	6	3	2
Vermont.....	-	-	-	-	-	-	-	-	-	3	15	9
Massachusetts.....	-	-	-	2	1	-	2	8	11	12	198	639
Rhode Island.....	-	-	-	2	2	1	-	-	2	2	16	112
Connecticut.....	-	-	-	-	-	-	2	2	4	5	98	520
MIDDLE ATLANTIC.....	-	4	-	20	11	7	66	61	127	150	1,718	2,114
New York.....	-	3	-	13	8	7	45	34	79	68	759	1,135
New Jersey.....	-	-	-	2	-	-	7	12	19	39	449	773
Pennsylvania.....	-	1	-	5	3	-	14	15	29	43	510	206
EAST NORTH CENTRAL.....	1	13	4	16	4	2	81	52	136	139	3,091	1,886
Ohio.....	-	-	-	1	-	-	16	10	27	31	261	234
Indiana.....	-	2	-	3	-	-	-	1	2	16	102	125
Illinois.....	-	9	4	7	2	-	26	18	44	39	219	531
Michigan.....	1	2	-	3	1	2	33	23	56	47	1,481	698
Wisconsin.....	-	-	-	2	1	-	6	-	7	6	1,028	298
WEST NORTH CENTRAL.....	3	111	-	36	4	4	18	13	41	45	359	338
Minnesota.....	-	7	-	15	-	-	1	3	4	18	46	94
Iowa.....	3	81	-	1	3	1	2	4	14	15	65	176
Missouri.....	-	5	-	1	-	-	5	3	8	2	197	6
North Dakota.....	-	7	-	1	-	3	-	-	-	2	50	61
South Dakota.....	-	7	-	10	1	-	2	-	2	-	-	-
Nebraska.....	-	5	-	8	-	-	-	1	3	3	1	1
Kansas.....	-	6	-	-	-	-	8	2	10	5	NN	NN
SOUTH ATLANTIC.....	-	4	-	26	9	6	29	27	62	77	844	511
Delaware.....	-	-	-	-	-	-	1	2	3	-	20	19
Maryland.....	-	-	-	-	2	3	10	1	11	11	61	74
District of Columbia..	-	-	-	-	-	-	-	-	-	3	2	7
Virginia.....	-	2	-	-	1	-	3	7	15	8	151	156
West Virginia.....	-	-	-	1	-	-	3	1	4	12	431	141
North Carolina.....	-	1	-	1	2	-	6	3	9	20	13	7
South Carolina.....	-	-	-	9	-	1	-	-	1	4	83	45
Georgia.....	-	-	-	7	-	-	1	4	5	6	4	25
Florida.....	-	1	-	8	4	2	5	9	14	13	79	37
EAST SOUTH CENTRAL.....	1	7	-	9	-	-	19	22	41	113	410	479
Kentucky.....	-	2	-	-	-	-	5	2	7	40	181	137
Tennessee.....	1	4	-	2	-	-	11	11	22	37	201	294
Alabama.....	-	1	-	7	-	-	1	6	7	19	20	27
Mississippi.....	-	-	-	-	-	-	2	3	5	17	8	21
WEST SOUTH CENTRAL.....	-	12	-	16	-	2	25	13	40	73	480	660
Arkansas.....	-	3	-	1	-	-	4	-	4	6	105	13
Louisiana.....	-	-	-	2	-	-	6	4	10	17	1	-
Oklahoma.....	-	3	-	6	-	1	-	-	-	3	49	9
Texas.....	-	6	-	7	-	1	15	9	26	47	325	638
MOUNTAIN.....	-	5	-	1	1	1	6	2	26	36	598	912
Montana.....	-	-	-	-	1	1	1	-	1	-	57	104
Idaho.....	-	-	-	-	-	-	-	-	5	3	98	54
Wyoming.....	-	1	-	-	-	-	-	-	-	-	24	3
Colorado.....	-	-	-	-	-	-	-	-	2	13	104	380
New Mexico.....	-	-	-	1	-	-	3	1	4	4	NN	NN
Arizona.....	-	3	-	-	-	-	-	-	11	11	279	231
Utah.....	-	1	-	-	1	-	2	1	3	5	36	140
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	-	7	-	2	10	15	47	74	141	109	956	1,208
Washington.....	-	-	-	-	-	4	10	10	38	37	84	106
Oregon.....	-	2	-	-	-	-	8	8	18	9	139	356
California.....	-	4	-	2	10	11	28	54	82	60	680	609
Alaska.....	-	-	-	-	-	-	-	-	-	3	23	11
Hawaii.....	-	1	-	-	-	-	1	2	3	-	30	126
Fuerto Rico.....	-	-	1	10	-	-	13	4	17	20	27	87

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED

JUNE 22, 1963 AND JUNE 23, 1962 - (Continued)

Area	Meningococcal Infections		Streptococcal Sore Throat & Scarlet Fever		Tetanus	Tickborne Typhus (Rocky Mt. Spotted)	Tularemia	Typhoid Fever		Rabies in Animals		
	25th wk.	Cumulative 25 weeks	25th week		25th wk.	25th wk.	25th wk.	25th wk.	Cumulative 25 weeks	25th week		Cumulative 25 weeks
	1963	1963	1963	1962	1963	1963	1963	1963	1963	1963	1962	1963
UNITED STATES....	49	1,402	4,398	3,952	6	8	12	10	171	98	87	1,967
NEW ENGLAND.....	1	87	554	254	-	-	1	-	6	-	-	20
Maine.....	-	15	81	1	-	-	-	-	-	-	-	1
New Hampshire.....	-	4	-	1	-	-	-	-	-	-	-	12
Vermont.....	-	3	-	1	-	-	-	-	1	-	-	7
Massachusetts.....	1	38	44	65	-	-	1	-	4	-	-	-
Rhode Island.....	-	9	37	23	-	-	-	-	-	-	-	-
Connecticut.....	-	18	392	163	-	-	-	-	1	-	-	-
MIDDLE ATLANTIC....	8	192	215	242	1	-	-	3	23	2	3	55
New York.....	4	86	143	166	-	-	-	2	16	2	2	41
New Jersey.....	1	27	42	40	-	-	-	1	2	-	-	-
Pennsylvania.....	3	79	30	36	1	-	-	-	5	-	1	14
EAST NORTH CENTRAL..	6	228	459	294	-	1	-	3	11	51	38	329
Ohio.....	2	64	40	16	-	1	-	1	3	45	27	206
Indiana.....	2	29	64	81	-	-	-	-	1	1	3	31
Illinois.....	2	39	77	50	-	-	-	2	5	3	3	46
Michigan.....	-	69	198	78	-	-	-	-	1	2	3	30
Wisconsin.....	-	27	80	69	-	-	-	-	1	-	2	16
WEST NORTH CENTRAL..	3	83	114	70	-	-	2	-	10	22	18	467
Minnesota.....	-	16	18	14	-	-	-	-	3	4	2	125
Iowa.....	-	4	37	33	-	-	-	-	1	14	5	175
Missouri.....	2	30	5	1	-	-	2	-	6	2	6	82
North Dakota.....	-	4	41	19	-	-	-	-	-	1	2	14
South Dakota.....	-	4	10	2	-	-	-	-	-	-	2	54
Nebraska.....	-	19	1	-	-	-	-	-	-	1	1	9
Kansas.....	1	6	2	1	-	-	-	-	-	-	-	8
SOUTH ATLANTIC.....	11	258	349	339	1	4	1	-	34	6	6	302
Delaware.....	-	2	1	3	-	-	-	-	1	-	-	-
Maryland.....	1	41	10	23	-	-	-	-	3	-	-	-
Dist. of Columbia..	-	4	-	1	-	-	-	-	-	-	-	-
Virginia.....	-	64	135	82	1	2	-	-	4	2	3	111
West Virginia.....	-	13	84	54	-	-	-	-	6	1	1	88
North Carolina.....	4	43	14	10	-	1	-	-	5	-	-	5
South Carolina.....	-	13	36	22	-	-	-	-	2	-	-	6
Georgia.....	6	22	-	10	-	1	-	-	2	2	-	37
Florida.....	-	56	69	134	-	-	1	-	11	1	2	55
EAST SOUTH CENTRAL..	1	109	747	502	1	2	-	1	15	3	6	161
Kentucky.....	-	24	90	25	-	-	-	-	1	2	1	76
Tennessee.....	1	47	633	466	1	2	-	1	10	1	3	71
Alabama.....	-	21	10	4	-	-	-	-	4	-	2	14
Mississippi.....	-	17	14	7	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL..	3	141	596	542	3	1	7	3	31	3	14	394
Arkansas.....	1	9	1	8	-	-	5	1	15	2	1	26
Louisiana.....	1	58	3	2	-	-	-	-	5	1	1	36
Oklahoma.....	1	28	39	1	1	1	2	-	2	-	-	33
Texas.....	-	46	553	531	2	-	-	2	9	-	12	299
MOUNTAIN.....	6	49	669	887	-	-	1	-	5	6	-	45
Montana.....	-	3	22	21	-	-	-	-	-	-	-	-
Idaho.....	-	3	44	74	-	-	-	-	-	-	-	-
Wyoming.....	3	4	-	12	-	-	1	-	-	-	-	-
Colorado.....	1	12	161	306	-	-	-	-	2	2	-	2
New Mexico.....	-	3	218	192	-	-	-	-	1	-	-	21
Arizona.....	-	7	111	156	-	-	-	-	2	4	-	22
Utah.....	2	14	112	126	-	-	-	-	-	-	-	-
Nevada.....	-	3	1	-	-	-	-	-	-	-	-	-
PACIFIC.....	10	255	695	822	-	-	-	-	36	5	2	194
Washington.....	-	18	81	47	-	-	-	-	-	-	-	-
Oregon.....	-	15	10	15	-	-	-	-	2	-	-	1
California.....	9	208	537	690	-	-	-	-	31	5	2	184
Alaska.....	1	7	26	53	-	-	-	-	1	-	-	9
Hawaii.....	-	7	41	17	-	-	-	-	2	-	-	-
Puerto Rico.....	-	4	14	-	2	-	-	2	10	-	2	6

Morbidity and Mortality Weekly Report

Table 4 (A). TOTAL DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)^o

Area	For weeks ending				Area	For weeks ending			
	6/1	6/8	6/15	6/22		6/1	6/8	6/15	6/22
NEW ENGLAND:					SOUTH ATLANTIC:				
Boston, Mass.	225	279	237	188	Atlanta, Ga.	93	107	133	125
Bridgeport, Conn.	24	51	45	35	Baltimore, Md.	176	289	213	248
Cambridge, Mass.	22	33	36	36	Charlotte, N.C.	40	47	58	24
Fall River, Mass.	28	25	24	22	Jacksonville, Fla.	64	37	56	59
Hartford, Conn.	36	63	57	46	Miami, Fla.	44	105	66	96
Lowell, Mass.	21	22	23	19	Norfolk, Va.	40	54	44	61
Lynn, Mass.	27	15	30	19	Richmond, Va.	78	106	87	84
New Bedford, Mass.	20	35	33	24	Savannah, Ga.	41	43	33	31
New Haven, Conn.	38	48	59	37	St. Petersburg, Fla.	58	66	81	77
Providence, R.I.	63	53	57	85	Tampa, Fla.	58	81	66	81
Somerville, Mass.	14	15	12	12	Washington, D.C.	188	184	206	193
Springfield, Mass.	30	42	35	35	Wilmington, Del.	18	36	46	37
Waterbury, Conn.	31	34	24	29	EAST SOUTH CENTRAL:				
Worcester, Mass.	55	47	62	49	Birmingham, Ala.	80	76	89	105
MIDDLE ATLANTIC:					Chattanooga, Tenn.	46	38	50	32
Albany, N.Y.	38	47	34	45	Knoxville, Tenn.	26	45	32	44
Allentown, Pa.	33	41	26	35	Louisville, Ky.	66	127	93	128
Buffalo, N.Y.	117	151	138	132	Memphis, Tenn.	99	117	151	135
Camden, N.J.	35	37	46	42	Mobile, Ala.	36	37	40	56
Elizabeth, N.J.	29	23	29	25	Montgomery, Ala.	45	37	43	34
Erie, Pa.	44	40	39	38	Nashville, Tenn.	80	99	99	83
Jersey City, N.J.	65	61	61	62	WEST SOUTH CENTRAL:				
Newark, N.J.	61	119	86	72	Austin, Tex.	30	35	31	38
New York City, N.Y.	1,554	1,580	1,582	1,575	Baton Rouge, La.	25	25	29	27
Paterson, N.J.	25	34	32	36	Corpus Christi, Tex.	24	26	19	31
Philadelphia, Pa.	372	436	481	464	Dallas, Tex.	131	133	143	134
Pittsburgh, Pa.	182	238	119	158	El Paso, Tex.	33	43	32	44
Reading, Pa.	38	40	37	45	Fort Worth, Tex.	82	77	58	66
Rochester, N.Y.	115	119	110	95	Houston, Tex.	182	188	139	165
Schenectady, N.Y.	31	17	21	29	Little Rock, Ark.	56	60	58	73
Scranton, Pa.	26	23	32	38	New Orleans, La.	184	163	184	190
Syracuse, N.Y.	54	54	71	61	Oklahoma City, Okla.	59	82	106	77
Trenton, N.J.	41	52	67	32	San Antonio, Tex.	87	113	115	100
Utica, N.Y.	19	20	15	26	Shreveport, La.	55	29	58	70
Yonkers, N.Y.	37	32	29	34	Tulsa, Okla.	53	63	54	43
EAST NORTH CENTRAL:					MOUNTAIN:				
Akron, Ohio.	46	53	64	58	Albuquerque, N. Mex.	41	28	27	37
Canton, Ohio.	31	34	44	31	Colorado Springs, Colo.	19	17	16	19
Chicago, Ill.	658	777	786	655	Denver, Colo.	103	124	108	110
Cincinnati, Ohio.	134	210	147	153	Ogden, Utah.	13	19	20	12
Cleveland, Ohio.	153	239	245	204	Phoenix, Ariz.	74	97	81	94
Columbus, Ohio.	124	124	131	112	Pueblo, Colo.	14	13	13	18
Dayton, Ohio.	66	77	61	71	Salt Lake City, Utah.	50	59	49	59
Detroit, Mich.	258	368	428	320	Tucson, Ariz.	44	57	41	39
Evansville, Ind.	35	40	37	31	PACIFIC:				
Flint, Mich.	33	49	56	46	Berkeley, Calif.	20	17	17	19
Fort Wayne, Ind.	36	51	46	29	Fresno, Calif.	49	46	55	45
Gary, Ind.	23	49	34	31	Glendale, Calif.	27	45	33	39
Grand Rapids, Mich.	49	59	38	45	Honolulu, Hawaii.	45	44	31	43*
Indianapolis, Ind.	129	168	153	127	Long Beach, Calif.	41	82	55	53
Madison, Wis.	33	25	54	30*	Los Angeles, Calif.	438	525	525	546
Milwaukee, Wis.	96	145	144	113	Oakland, Calif.	78	104	83	96*
Peoria, Ill.	27	26	37	25	Pasadena, Calif.	29	53	37	39*
Rockford, Ill.	29	27	37	26	Portland, Oreg.	95	116	108	125
South Bend, Ind.	39	47	47	35	Sacramento, Calif.	52	52	56	59
Toledo, Ohio.	72	120	129	106	San Diego, Calif.	94	94	90	105
Youngstown, Ohio.	54	74	74	56	San Francisco, Calif.	183	214	224	164
WEST NORTH CENTRAL:					San Jose, Calif.	46	48	34	36
Des Moines, Iowa.	46	55	67	62	Seattle, Wash.	128	181	145	139
Duluth, Minn.	21	30	30	19	Spokane, Wash.	58	34	58	47
Kansas City, Kans.	38	40	48	31	Tacoma, Wash.	37	51	34	45
Kansas City, Mo.	107	155	111	118	San Juan, P.R.	30	23	33	30
Lincoln, Nebr.	25	26	29	22	^o Current Week Mortality for 108 Selected Cities				
Minneapolis, Minn.	96	149	105	130	4(A) Total Mortality, all ages.	10,978			
Omaha, Nebr.	52	72	74	57	4(B) Pneumonia-Influenza Deaths, all ages.	360			
St. Louis, Mo.	185	290	297	214	4(C) Total Deaths under 1 Year of Age.	695			
St. Paul, Minn.	74	73	77	68	4(D) Total Deaths, Persons 65 years and over.	6,076			
Wichita, Kans.	34	36	59	51					

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

excess mortality was noticeably later in 1963 than in 1960. Cumulative excess mortality, shown in the lower part of the figure, was similar to that for the entire United States, with excess pneumonia-influenza mortality lower, but excess mortality from all causes higher in 1963 than in 1960.

The total number of excess deaths from pneumonia-influenza is estimated at 11,125 in comparison with 12,000 deaths during the 1960 epidemic. For all causes of death the excess number during the 1963 epidemic is estimated to be 53,000, a considerably larger number than the 27,000 excess deaths from all causes estimated to have occurred during the epidemic of 1960. However, as illustrated in Figure 3, there was a noticeable excess

ERRATUM

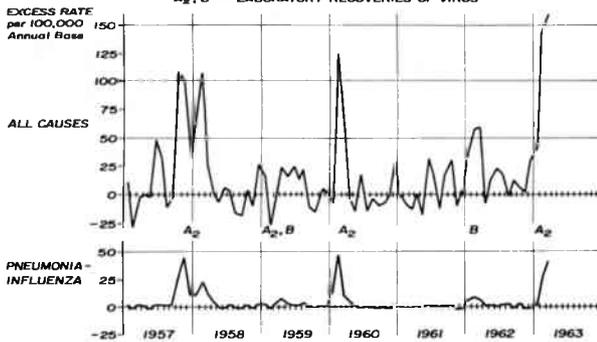
The graph of tetanus mortality and morbidity which appeared in Vol. 12, Page 198, indicated rates/100,000, but erroneously showed rates/1,000,000. The vertical axis should have read .10, .20, .30, etc., to show rates/100,000.

FIGURE 3

EXCESS MORTALITY BY MONTH, UNITED STATES, 1957-1963

EXCESS RATE PER 100,000 - ADJUSTED TO AN ANNUAL BASE

A₂, B LABORATORY RECOVERIES OF VIRUS



in deaths from all causes during December and January when excess pneumonia-influenza mortality was at low levels. Using the February ratio of excess deaths from all causes to pneumonia-influenza deaths as a basis for adjustment, the excess deaths from all causes during January would be reduced by 5,000 leaving a total of 48,000 excess deaths from all causes as the total associated with the influenza epidemic. The above estimates are all based on the 10% U. S. Mortality Sample.

INTERNATIONAL NOTES - QUARANTINE MEASURES

Smallpox - Sweden

Two additional cases of smallpox in Stockholm were reported on June 20 and June 24, 1963, respectively. A total of 23 confirmed cases, with four deaths, has occurred to date.

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